

CLV631-3000 CLV63x

BAR CODE SCANNERS





## Ordering information

Туре	Part no.
CLV631-3000	1041984

Other models and accessories → www.sick.com/CLV63x



#### Detailed technical data

#### **Features**

Version	Mid Range
Connection type	Cable
Reading field	Side (105°)
Scanner design	Raster scanner
Focus	Fixed focus
Light source	Visible red light (655 nm)
MTBF	40,000 h
Laser class	2 (EN 60825-1 (A2:2001-03), IEC 60825-1: 2007-03, Ed. 2.0)
Aperture angle	≤ 50°
Scanning frequency	400 Hz 1,200 Hz
Code resolution	0.25 mm 0.5 mm
Reading distance	74 mm 412 mm <sup>1)</sup>
Raster height, number of lines, at distance	15 mm, 8, 185 mm
Heating	Optional

 $<sup>^{1)}\,\</sup>mbox{For details see}$  reading field diagram.

#### Performance

Bar code types	All current code types, Code 39, Code 128, Code 93, Codabar, GS1-128 / EAN 128, UPC / GTIN / EAN, Interleaved 2 of 5, Pharmacode, GS1 DataBar, Telepen, MSI/Plessey
Print ratio	2:1 3:1
No. of codes per scan	1 20 (Standard decoder) 1 6 (SMART decoder)
No. of codes per reading interval	1 50 (auto-discriminating)
No. of characters per reading interval	5,000 500 (for multiplexer function in CAN operation)
No. of multiple readings	199

#### Interfaces

PROFINET	1
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Function		PROFINET Dual Port (optional via external connection module CDF600-2)	
EtherCAT®		✓	
	Type of fieldbus integration	Optional over external fieldbus module CDF600	
Serial		<b>√</b> , RS-232, RS-422, RS-485	
	Function	Host, AUX	
	Data transmission rate	2,400 Baud 115.2 kBaud, AUX: 57.6 kBaud (RS-232)	
CAN		1	
	Function	SICK CAN sensor network (Master/Slave, Multiplexer/Server)	
	Data transmission rate	20 kbit/s 1 Mbit/s	
CANopen		1	
	Data transmission rate	20 kbit/s 1 Mbit/s	
PROFIBUS DP		✓	
	Type of fieldbus integration	Optional over external fieldbus module CDF600-2	
DeviceNet™		✓	
	Type of fieldbus integration	Optional via external connection module CDM + CMF	
Switching inputs		4 ("Sensor 1", "Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/ CDM420)	
Switching outputs		4 ("Result 1", "Result 2", 2 outputs via optional parameter storage CMC600 in CDB620/ CDM420)	
Reading pulse		Switching input "Sensor 1", non-powered, serial interface, auto pulse, CAN	
Optical indicators		6 LEDs (Ready, Result, laser, Data, CAN, LNK TX, Bar graph for displaying the reading rate percentage (10 LEDs))	
Acoustic indicators	s	Beeper/buzzer (can be switched off, can be allocated as a result indication function)	
Operating element	s	2 buttons (choose and start/stop functions)	
Configuration soft	ware	SOPAS ET	
Memory card		MicroSD memory card (flash card) 512 MB, optional	

## Mechanics/electronics

Electrical connection	1 x 15-pin D-Sub HD male connector (0.9 m)
Operating voltage	18 V DC 30 V DC
Power consumption	5 W
Housing	Aluminum die cast
Housing color	Light blue (RAL 5012)
Front screen	Glass
Enclosure rating	IP65 (EN 60529)
Protection class	III (EN 61140)
Weight	340 g, with connecting cable
Dimensions (L x W x H)	80 mm x 96 mm x 38 mm

#### Ambient data

Electromagnetic compatibility (EMC)	EN 61000-6-3 (2001-10) / EN 61000-6-2:2005
Vibration resistance	EN 60068-2-6 (1995)
Shock resistance	EN 60068-2-27 (1993)
Ambient operating temperature	0 °C +40 °C
Storage temperature	-20 °C +70 °C

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## BAR CODE SCANNERS

Permissible relative humidity	90 %, Non-condensing
Ambient light immunity	2,000 lx, on bar code
Bar code print contrast (PCS)	≥ 60 %

#### General notes

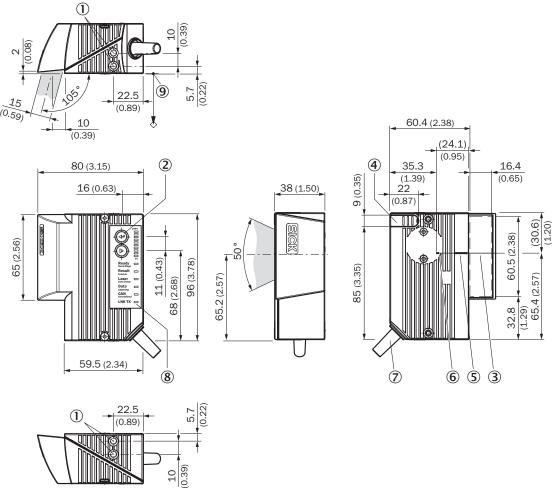
Note on use For	or Ethernet connection please use an Ethernet version of CLV6xx
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#### Classifications

ECI@ss 5.0	27280102
ECI@ss 5.1.4	27280102
ECI@ss 6.0	27280102
ECI@ss 6.2	27280102
ECI@ss 7.0	27280102
ECI@ss 8.0	27280102
ECI@ss 8.1	27280102
ECI@ss 9.0	27280102
ETIM 5.0	EC002550
ETIM 6.0	EC002550
UNSPSC 16.0901	43211701

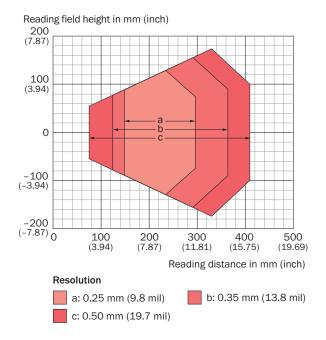
#### Dimensional drawing (Dimensions in mm (inch))

#### CLV63x/64x Standard, side



- ① Blind hole thread M5, 5 mm deep (2 x), for mounting
- ② Function button (2 x)
- 3 Reading field
- $\ensuremath{\textcircled{4}}$  Cover for the microSD memory card
- (5) Central position of the deflected laser beam in the V-shaped aperture angle
- ⑥ Internal impact point: rotation point of the variable direction laser beam
- 7 Cable with 15-pin D-sub HD male connector
- ® LED status indicator (6x) and bar graph
- Reference point for reading distance (from housing edge to object)

#### Reading field diagram



#### Recommended accessories

Other models and accessories → www.sick.com/CLV63x

	Brief description	Туре	Part no.	
Mounting bra	Mounting brackets and plates			
	Hanger-shaped mounting bracket, thermally isolated for use with heating devices, mounting hardware included	Mounting bracket	2050705	
	Hanger-shaped mounting bracket, mounting hardware included	Mounting bracket	2042800	
Modules				
	Small connection module for one sensor, 4 cable glands, base for CMC600	CDB620-001	1042256	
	Modular connection module for one sensor	CDM420-0001	1025362	

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

## **WORLDWIDE PRESENCE:**

Contacts and other locations -www.sick.com

